# K2 GROUT 225

Plasticized Expanding Grout Admixture

## Description:

GROUT 225, a plasticized expanding grout admixture powder combining a plasticizing agent and a gas producing expansion medium. The plasticizing agent enables a reduced water/cement ratio with consequent increased strengths and durability. The expansive medium balances the natural settlement and plastic shrinkage of the grout and aids stability and cohesion.

## Area of application:

Grout Admix is an admixture for cementitious grouts where a reduced water/cement ratio & positive expansions are required. Applications include bed grouting, duct grouting, non-shrink infilling & jointing.

## Benefits:

- Nullifies plastic shrinkage and settlement in properly designed cementitious grout due to Gaseous expansion system.
- Ensures low permeability and long term durability in service due to reduced water/cement ratio mixes in the grout mix.
- Placement or injection of the grout is easy because of high fluidity with low water/cement ratio
- Free from metallic iron content. Does not corrode and cause staining or deterioration due to rust expansion in the grout.
- Attains high early strength in grouts, without the use of chlorides.

## Technical Properties:

| PROPERTIES | RESULT |
|---|---|
| Properties | Chloride content: Nil as per BS:5075 |
| Compressive strength | The plasticizing action of GROUT 225 allows reduction of the water cement ratios of cementitious grouts whilst maintaining flow properties. This gives an improvement in strength and long term durability when cured under controlled conditions |
| Setting Time | GROUT 225 does not influence the setting time of cement based grouts. |
| Expansion Characteristics | The controlled positive expansion in unset grouts containing GROUT 225 nullifies plastic settlement as per ASTM C827. Normal expansion of up to 4% is typical |
| Time for expansion | 15 minutes - 2 hours. Temperatures above 20°C may slightly reduce the expansion time. |
| Compatibility | GROUT 225 is compatible with all types of Portland cement and other Premixed admixtures |

## Performance Guideline:

All grouting must be carried out with a cement based grout containing a plasticized, expanding powder admixture which is iron-free and chloride-free and should be added to the cement grout in the proportion of 225 gm. per 50kg of cement. GROUT 225 will provide an expansion of up to 4% in the plastic grout, by means of a gaseous system.

## Application Instruction:

### MIXING PROCESS

- For best results a mechanically powered grout mixer must be used.
- For quantities upto 50kg, a slow speed drill fitted with a high shear paddle is suitable. Large quantities will require a high volume drum mixer.
- It is essential that machine mixing capacity and labor availability is ready to enable the grouting operation to be carried out continuously. This may require the use of a holding tank with provision for gentle agitation to maintain fluidity.
- The water content should be accurately measured into the mixer. The cement (and sand if required) shall be slowly added to Grout 225.
- Mixing shall be continued for 5 minutes, making sure that a smooth even consistency is obtained.

### APPLICATION PROCESS:

- Ensure areas to be grouted are clean, sound and pre-wetted.
- The unrestrained surface area of the grout must be kept to a minimum.
- The grout should be pumped within 20 minutes of mixing to gain the full benefit of the expansion process.
- Normal pumping procedures shall be adopted ensuring a continuous operation.

### CURING

On completion of the grouting operation, any exposed areas which are not to be cut back should be thoroughly cured by means of water application, curing compound or wet hessian.

## Cleaning:

GROUT 225 should be removed from tools and equipment with clean water immediately after use.

| OPC | Concreting Sand | Water | K2 Grout225 | Yield |
|---|---|---|---|---|
| 50 kg<br>50 kg | 50 kg | 20-22 Liters<br>22-24 Liters | 225 gm.<br>225 gm. | 36 Liters<br>57 Liters |

## Dosage:

Note Overdosing of GROUT 225 increases expansion and may cause frothing.

## Packing:

GROUT 225 is available in 225 g pouch Packs.

## Shelf Life and Storage:

GROUT 225 has a shelf life of 12 months if kept in a dry condition in its original packing. High temperature and humid conditions may reduce the shelf life.

## Health & safety:

GROUT 225 is of non-hazard. Contact with the skin and eyes, or inhalation of dust should be avoided. Wear protective clothing, gloves, eyes/face protection and dust mask. In case of contact with skin, wash with clean water. In case of contact with eyes, rinse immediately with plenty of water and seek medical attention.

## Technical Support:

The company provides a technical service supported by the team of specialist applicators

in the industry.

## Important Note:

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